

## **ABSTRACT OF THE DISCLOSURE**

A control unit (116) resets a time stamp value whenever a pulsation is detected. In accordance with an electric signal from an ultrasonic search unit (101) and a send/receive unit (102), the  
5 image generating unit (110) generates ultrasound image data, attaches a time stamp to the generated image data, and places it into a data storing unit (112). A contour extracting unit (113) extracts a contour within the image data stored in the data storing unit (112), generates contour data, and attaches the same time  
10 stamp as the stamp attached to the image data to the contour data. An interpolated data generating unit (114) interpolates between the contour data in accordance with the attached time stamp to generate contour data corresponding to times at which sampling was not performed. A volume calculating unit (115) calculates a  
15 left ventricular volume (LVV) of a heart from the interpolated contour data according to the Modified Simpson method.